



# BIOMETRICS

DEPARTMENT OF DEFENSE



**Beyond Passwords  
Keys, Locks, & Pins**

**DoD Biometrics  
Management Office**  
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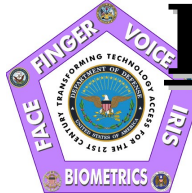
# Purpose

To introduce the DoD Biometrics Management Program to government and industry representatives.



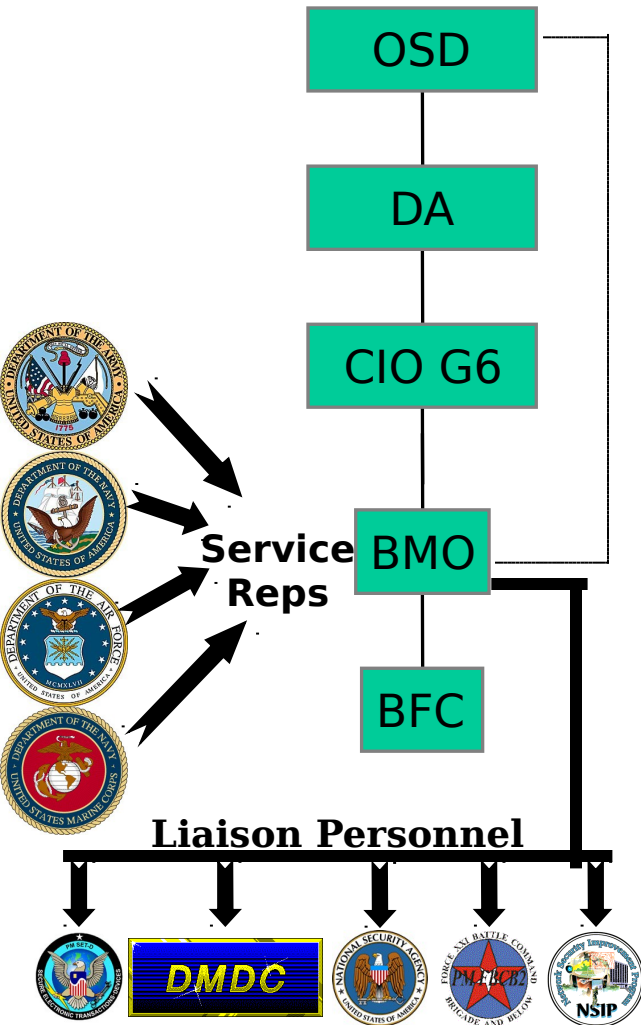
# Agenda

- Organization
- Strategic Transformation
- Roadmap to the DoD Biometrics Enterprise Solution
- Program Externalities
- Major Accomplishments
- Biometrics Enterprise Solution Processes
- Conceptual Biometricized Post, Camp, and Station Solution
- Conceptual Enterprise Solution with Repository
- Industry Assistance
- Summary



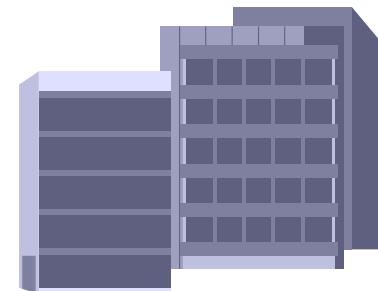
# DoD Biometrics Organization

## Chain of Command



## Biometrics Management Office (WV)

- Oversight
- Planning
- Budgeting
- Policy Development
- Acquisition
- DoD Requirements
- Coordination with non-DoD Agencies
- DoD Awareness of Biometrics
- Industry Contact



## Biometrics Fusion Center (WV)

- Test & Evaluation
- T&E Database
- Biometric "KnowledgeBase"
- DoD Pilot Projects
- Standards Working Groups
- Biometric Product List
- Central Repository
- Industry Contact





# Strategic Transformation

Paradigm shift is occurring in the new 'digital age'. Present methods of identifying individuals rely on trusting an issuing authority to guarantee authenticity. However, in a distributed enterprise it is imperative to ensure the identity on the 'distant' end

**Legal**  
**cy**

**Claimed Identity:**

- Photo IDs
- Official Documents

**Credentials:**

- Tokens
- PINs & Passwords
- COMSEC Keys

**Information  
Dominance  
Global  
Enterprise**

**Interim**

**100% Identity Assurance:**

- Enterprise Life Cycle Processes (collection, storage, access, retrieval and use)
- Biometric solutions (C2 Systems, CAC, PKI, Information Systems)
- Central Storage and Control
- Enterprise Architecture

**Objective**

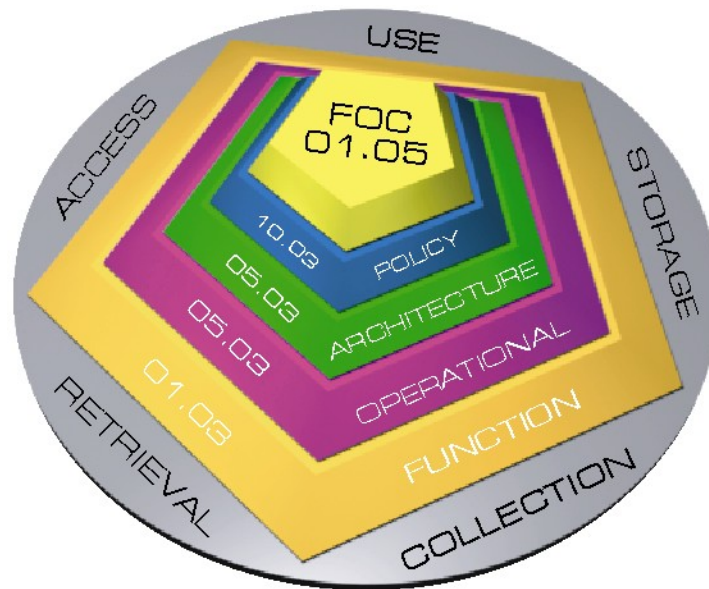
Biometrics will enable the DoD enterprise to guarantee positive access to C2 systems, weapons systems, and information in a full spectrum of operations. Information Dominance is a key



# Roadmap to the DoD

## Biometrics Enterprise Solution

- **By October 2002 - Partner with DMDC**
  - **DoD Biometrics Identification System (DBIDS) Technology Demonstrator (TD) at BFC**
  - **Market DBIDS as DoD Secure Installation Access Control System**
- **By January, 2003 - Functional Requirement Analysis**
  - **Test multiple concepts & technologies in the lab**
  - **Survey the user community for requirements**
  - **Publish the Biometrics Product List (BPL)**
- **By May, 2003 - Technology Demonstration (TD)**
  - **Proof of concept for placing Biometrics on CAC**
  - **TD Scenarios**
    - **Repository**
    - **Biometrics Template**
    - **Replacing PIN with Biometric**
    - **Contactless**
- **By May, 2003 - Architecture Design**
  - **Operational Architecture**
  - **Systems Architecture**
  - **Standards Architecture**



- **By January 2004 - Initial Operational Capability for Enterprise Solution**
  - **Collection system**
  - **Storage System**
  - **Access & Retrieval systems**
  - **User system**
- **By January, 2005 - Full Operational Capability for Enterprise Solution**
  - **Deploy and maintain**





# Program Externalities

- Standards and architectures
- Technology Insertion
- Communications Capacity
- Response Time
- Re-tooling Hardware
- Middleware
- Security and Privacy



# Major Accomplishments

- Developed the DoD Biometrics Strategic Plan and Directive
- Testing Biometrics for use with the Common Access Card (CAC)
- Delivering a DoD Biometrics five-day course in conjunction with West Virginia University
- In the Final Stages of the Decision process for establishing a permanent DoD Biometrics Fusion Center
- Completed 12 biometric device field tests - 9 fingerprint, 2 iris, 1 hand geometry (7 Army, 2 Air Force, 1 Navy, 1 Marine Corps, and 1 DoD Agency)
- Completed 56 assessments of commercial biometric products - 25 fingerprint, 2 iris, 2 hand geometry, 1 signature verification, 2 speaker recognition, 8 facial recognition, 14 middleware products, 1 retina, 1 web





# Biometrics Enterprise Solution

## Collection Processes

**Signature**



**Voice**



**Iris**



**Fingerprint**



**Hand**



**Global Information Grid**



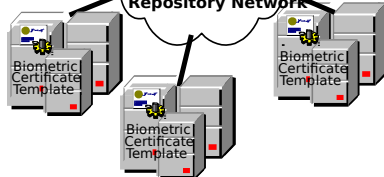
**CINCs  
Services  
Agencies**

**Use**

**Storage**

**Retrieval**

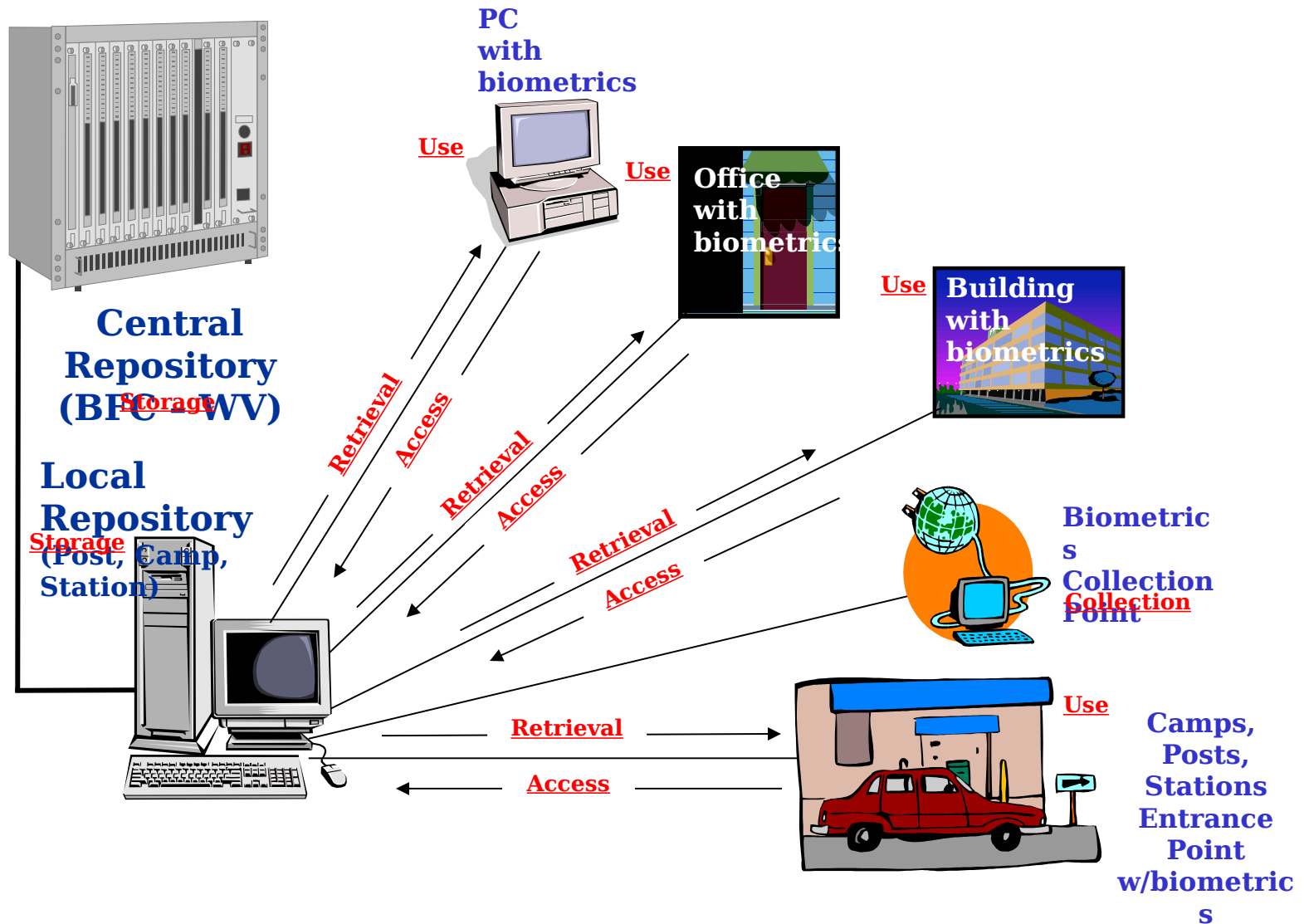
High Speed Internal  
Repository Network



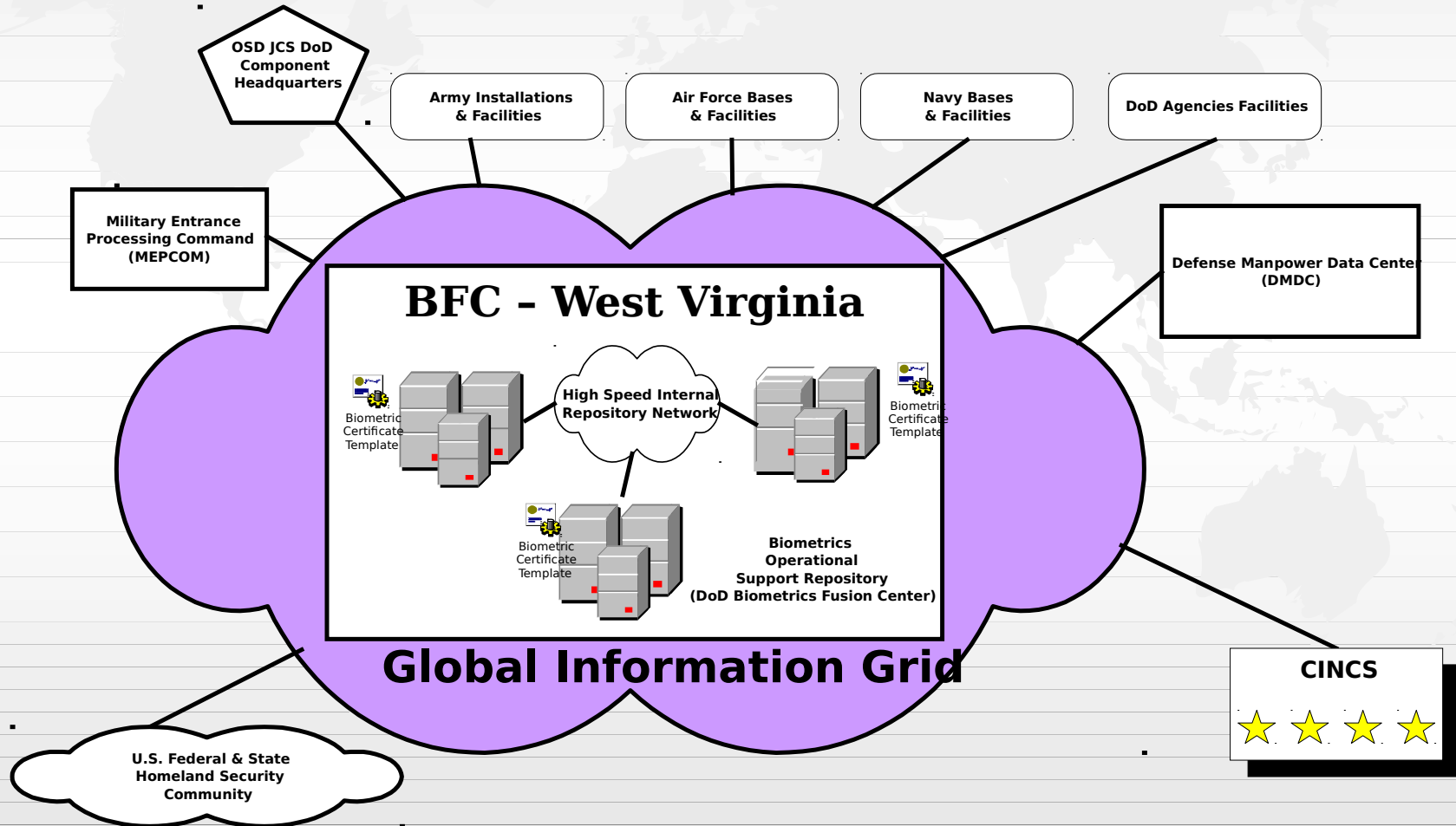
**Access**



# Conceptual Biometricized Post, Camp, and Station Solution



# Conceptual Enterprise Solution with DoD Consolidated Biometrics Operational Support Repository





# Industry Assistance

Areas that industry can assist the biometrics program:

- Technology Demonstrators in support of Enterprise solutions
  - Biometrics on CAC
  - Collecting, storing, accessing, retrieving and user support
- Compliance with standards
  - BioAPI
  - Interoperability
- Middleware to integrate multiple biometric equipment and systems
- Reducing response times



# Summary

- Role of the DoD Biometrics Management Office (BMO)
- DoD Enterprise Solution for Biometrics
- Conceptual Biometricized Post, Camp, and Station Solution
- Program Impacts
- Major Accomplishments
- Industry assistance required



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Education

BFC

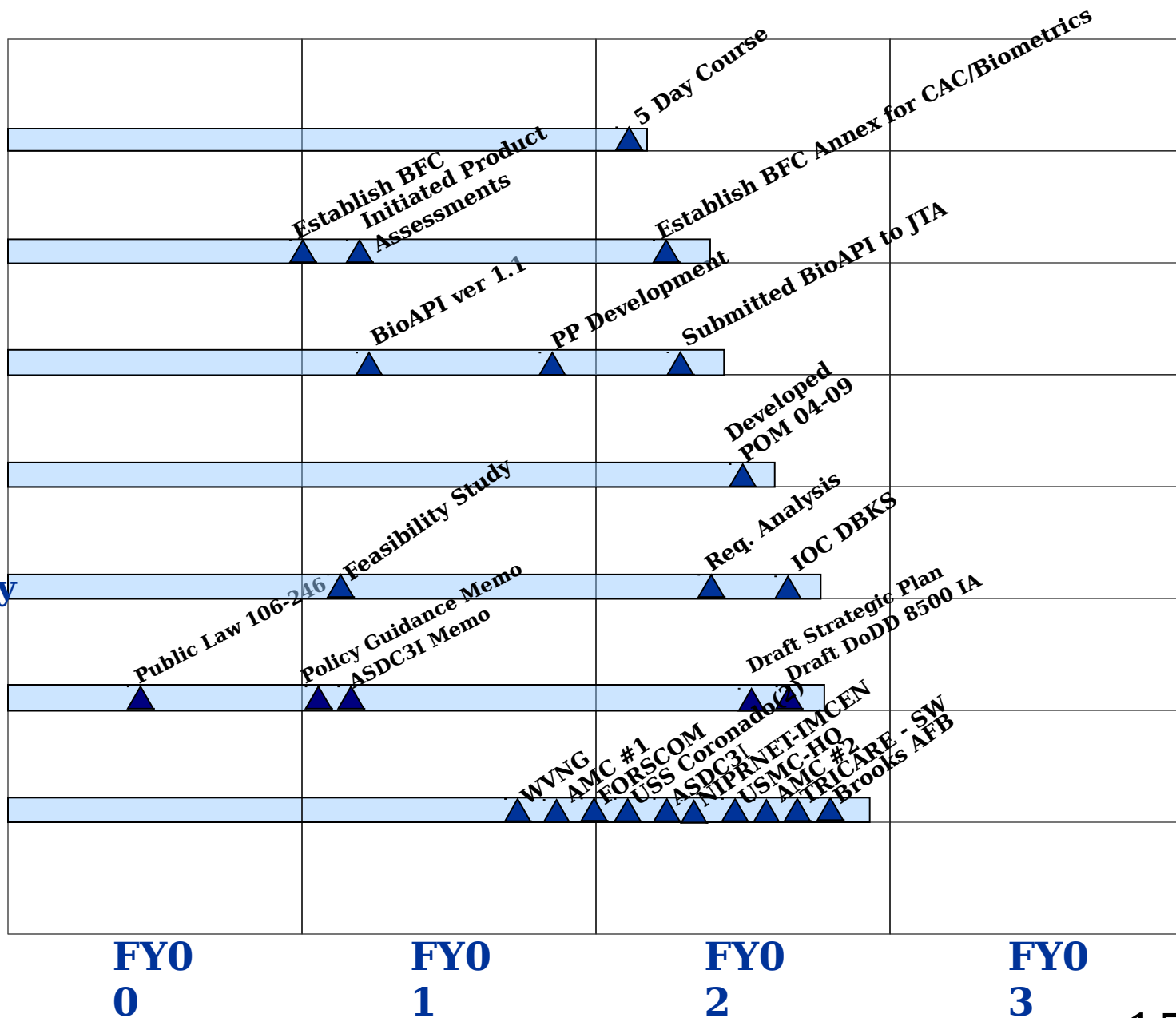
Standards

Budget

Central Repository

Policy

Pilots/Field Tests





# Roadmap to Enterprise Solutions

<u>Action</u>	<u>Deliverables</u>	<u>Notional Milestones</u>
<b>Requirements Analysis</b>	<b>Survey, Database, Functional Requirements for Biometrics (Medical, Personnel, Financial, Acquisition, Tactical, etc.)</b>	<b>January 2003</b>
<b>Biometric Enterprise Technology Demonstrations (TD)</b>	<b>Proof of concept for placing Biometrics on the CAC with demonstration scenarios; TD Repository, TD Biometric Template, TD Contactless, TD Replacing PIN with Biometric</b>	<b>May 2003</b>
<b>Design and Develop DoD Biometric Policy Framework</b>	<b>Draft Policies for DoD Biometric Program</b>	<b>October 2003</b>
<b>Design, Develop, and Publish DoD Biometric Operational Architecture System; Architecture &amp; Standards; Architecture for DoD Enterprise Business Process &amp; Technical Solution</b>	<b>Architectural Enterprise Solutions:</b> <ul style="list-style-type: none"> <li>• Operational Architecture</li> <li>• Systems Architecture</li> <li>• Standards Architecture</li> </ul>	<b>May 2003</b>
<b>Deliver Enterprise Solutions</b> <ul style="list-style-type: none"> <li>• Collection</li> <li>• Storage</li> <li>• Access / Retrieval</li> <li>• Use</li> </ul>	<ul style="list-style-type: none"> <li>• Enterprise Collection System</li> <li>• Enterprise Storage System</li> <li>• Enterprise Access / Retrieval Systems</li> <li>• Enterprise User System</li> </ul>	<b>January 2004</b>
<b>Partnering with DMDC</b>	<b>DoD Biometric Identification System (DBIDS) TD in WV at BFC and Airfield</b>	<b>October 2002</b>